SERVICE MANUAL & PARTS LIST (with price)

POCKET TELEVISION

TV-6500 (KX-337CA)

SEPT. 1988

CASIO®

CONTENTS

SPECIFICATIONS 1

BLOCK DIAGRAM 2

CIRCUIT OPERATIONS 3

ADJUSTMENT 5

WIRING DIAGRAM 6

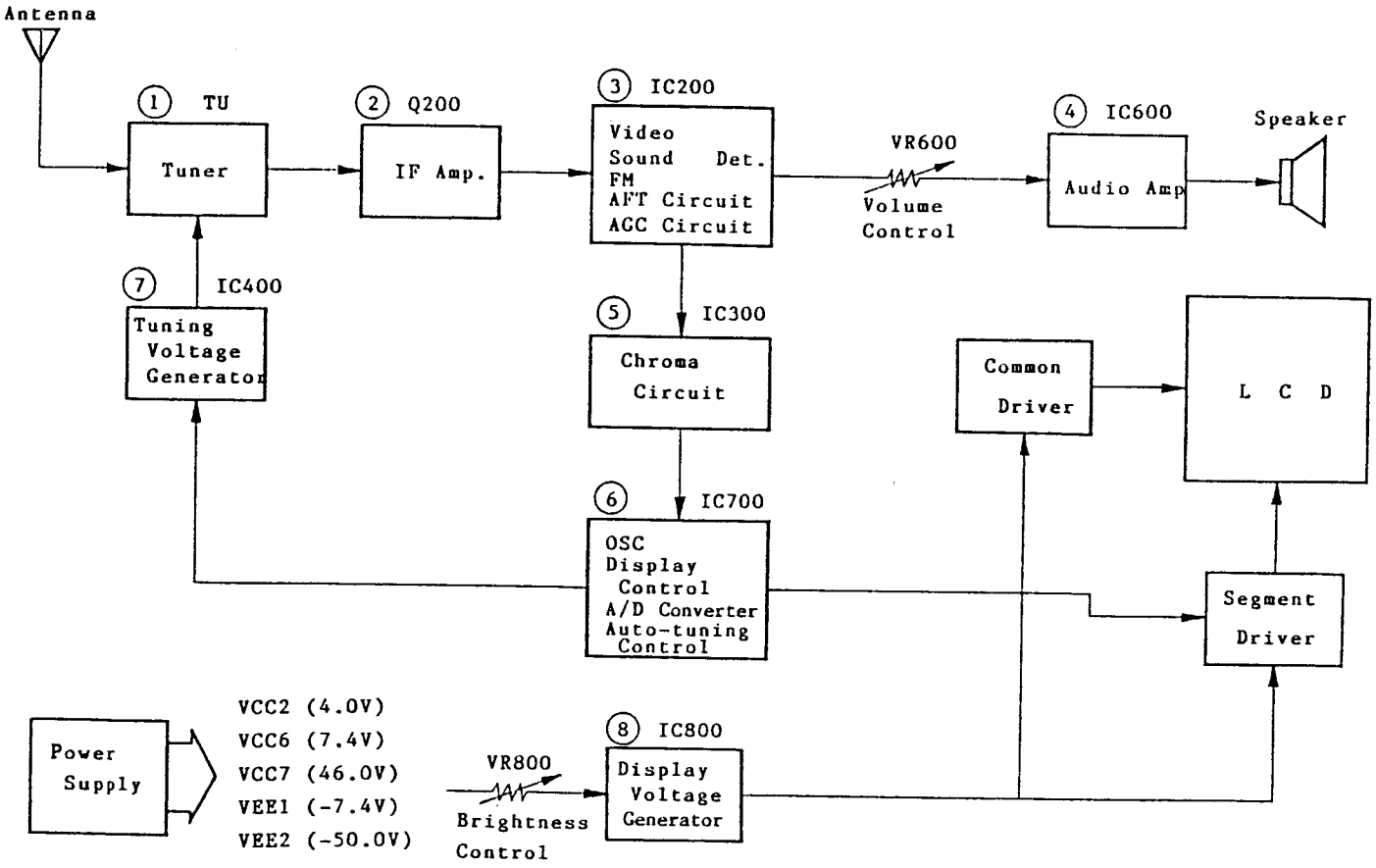
EXPLODED VIEW / DISASSEMBLY ... 7

COMPONENT LOCATIONS 9

PARTS LIST 11

SCHEMATIC DIAGRAMS 19

BLOCK DIAGRAM



1. **Tuner: TU**
   Picks up a desired radio wave, and converts it into IF signal.

2. **IF Amp. : Q200**
   Amplifies IF signal output from the tuner by approximately 10 times.

3. **Video, Sound, FM Det. , AGC: IC200**
   Picks up the video signal and the sound IF signal by detecting IF signal.
   Also picks up the sound signal from the sound IF signal by FM detection.
   AGC circuit compensates reception inferiority caused by radio wave.

4. **Audio Amp. : IC600**
   Amplifies the sound signal.

5. **Chroma Circuit: IC300**
   Picks up three colors of Red, Green and Blue from the video signal.

6. **OSC, A/D Converter, Display Control, Auto-tuning Control: IC700**
   Converts the color signal into the digital signal.
   Also generates the clock pulse for the display, and controls the display.

7. **Tunig Voltage Generator: IC400**
   Generates the tuning voltage.

8. **Display Voltage Generator: IC800**
   Generates the display voltage V0 to V4 from VEE1/2 and VCC6/7 output from the power supply.

SPECIFICATIONS

Item	Specification
1. Reception channels	VHF: Ch 2~ 12, UHF: Ch 21~ 69
2. Power voltage	DC 9.0 V
3. Power consumption	Approx. 4.0 W
4. Current consumption	Approx. 450 mA
5. Battery life (with alkaline batteries)	Approx. 4.0 hours
6. Power supply	Batteries: 6 AA size batteries Car battery: CA-K90 AC adaptor: AD-K90
7. Connection terminals	Earphone jack: 3.5ϕ mini External power jack: 9.0 V DC IN External antenna jack: 3.5ϕ mini Audio/Video Jack: 3.5 ϕ
8. Screen size	2.7 inches
9. No. of picture element	118,580 (220 × 539) dots
10. Dimensions	93.0 mm (H) × 92.0 mm (W) × 47.5 mm (D) 3-6/8" (H) × 3-6/8" (W) × 1-7/8" (D)
11. Weight	425 g including batteries 15.0 oz including batteries
12. Standard accessories	Soft case and Test batteries (UM-3 × 6)
13. Options	AC adaptor: AD-K90 Car adaptor: CA-K90 RF connector: CF-13 Antenna matching device: AS-35S Video cord : AV-C1 Video monitor stand: OS-51M
14. Body color	Black

CIRCUIT OPERATIONS

Power supply

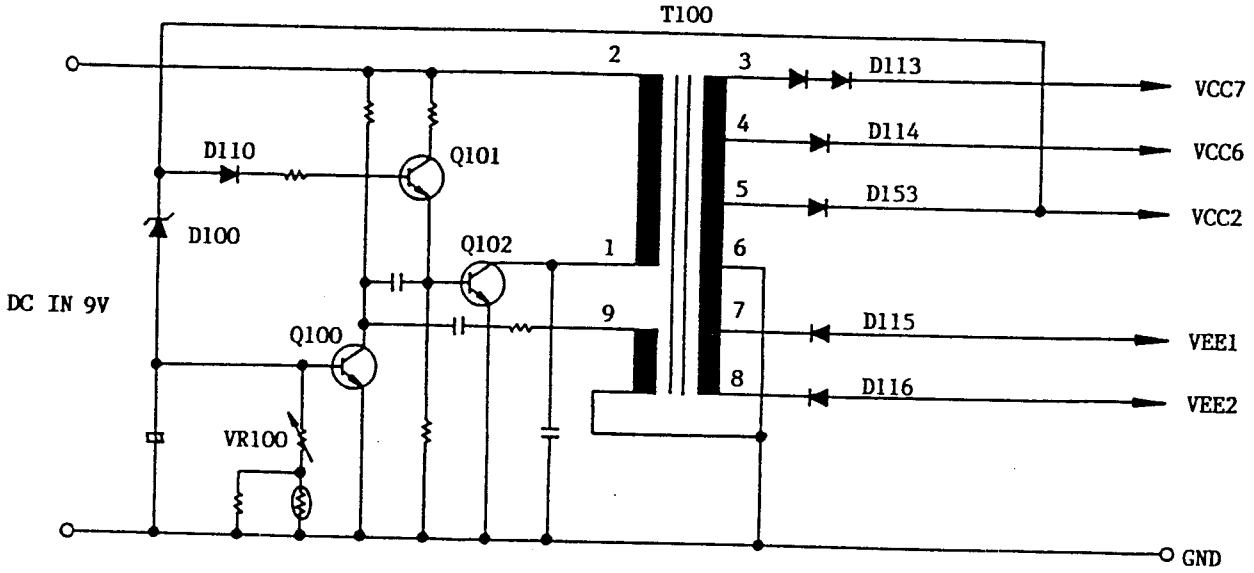


Fig. 1

DC-DC converter is a main component in the power supply, and tabel 1 shows voltages output from the power supply.

Terminal	Voltage	Purpose
VCC2	40. V ± 5%	Logic circuit
VCC6	7.4 V ± 10%	Display
VCC7	46.5 V ± 10%	Display/Tuning
VEE1	-7.5 V ± 10%	Display
VEE2	-50.0 V ± 10%	Display

Table 1

Tuning voltage generator

IC400 (MSC1169) is a main component in this cuircuit, and generates the tuning voltage BT by receiving the TU signal generated from IC700 (MSM6348) on the A/D PCB.

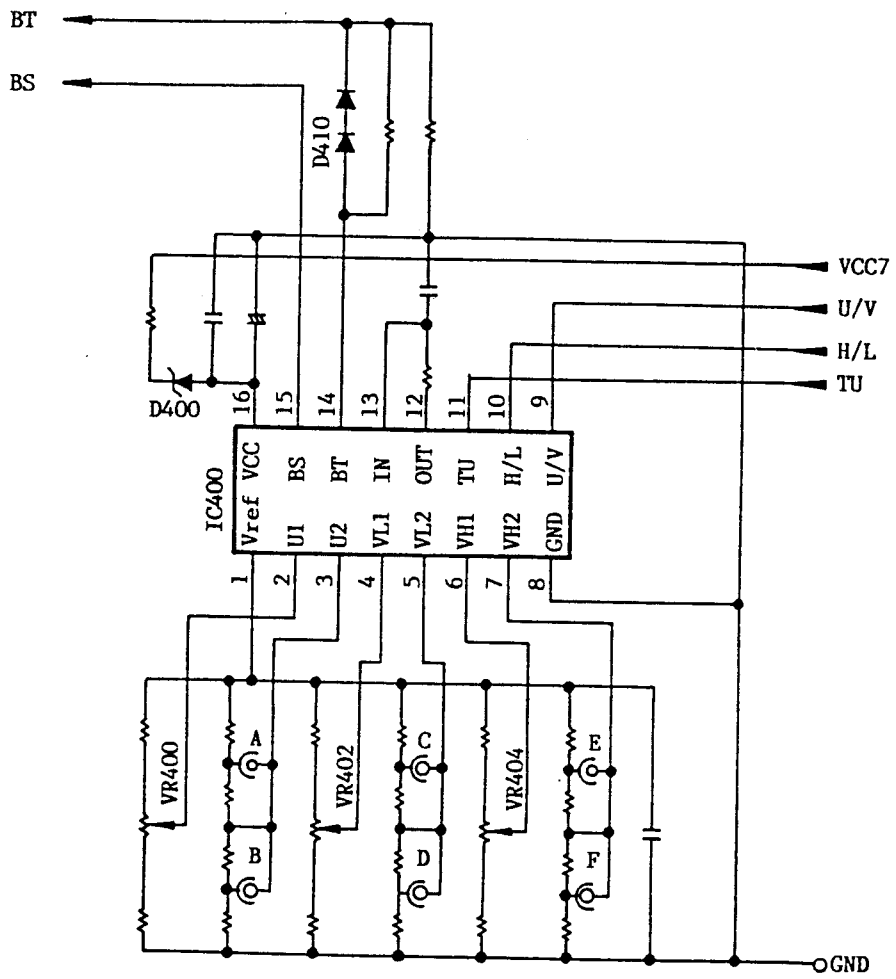


Fig.2

Variable resistors VR400 ~ VR404 and sodering pads A ~ F determine the characteristics of the tuning voltage BT.
If these variable resistors and soldering pads are not adjusted correctly, the tuning indicator does not match with the channel display.

Table 2 shows functions of each variable resistors and soldering pads.

VR No.	Functions
VR402, C, D	VHF (L) indicator adjustment
VR404, E, F	VHF (H) indicator adjustment
VR400, A, B	UHF indicator adjustment

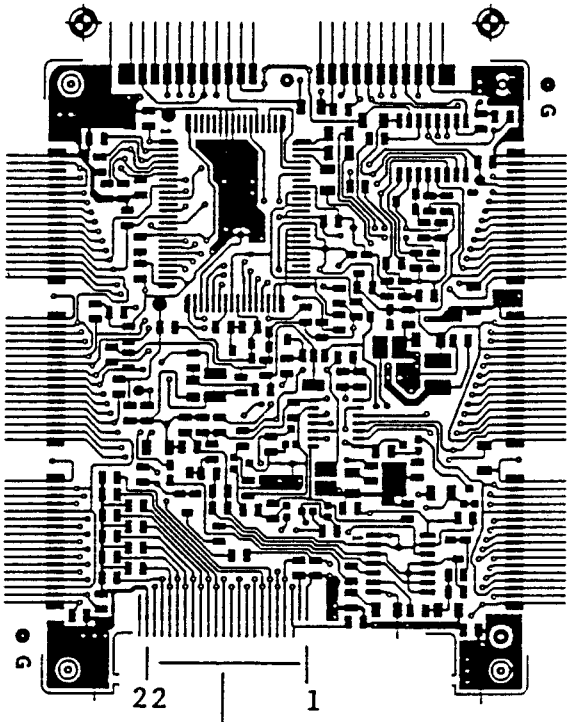
Table 2

ADJUSTMENT

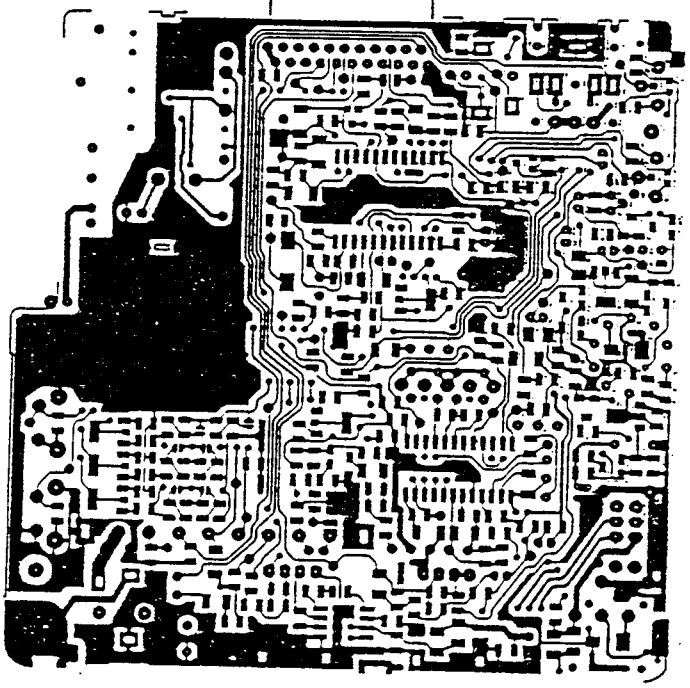
Adjustment point	Adjustment	P C B
VCC2 voltage	☆ Make this adjustment whenever repairing. ○ Adjust VR100 so that VCC2 is 4.0 ± 0.02 V.	Linear
Video detection coil	☆ Make this adjustment when sensitivity or receiving is poor. ○ Adjust T200 with watching the screen.	Linear
AFT coil	☆ Make this adjustment when the auto-tuning does not stop. ○ Adjust T201 so that the auto-tuning stops.	Linear
Contrast	☆ Make this adjustment when the contrast is not good. ○ Adjust VR300 with watching the screen.	Linear
AGC	☆ Make this adjustment when no reception is possible at all or the sensitivity is extremely bad. ○ Adjust VR200 with watching the screen.	Linear
Clock pulse	☆ Make this adjustment when no synchronization is gained. ○ Adjust VR700 with watching the screen.	A/D

WIRING DIAGRAM

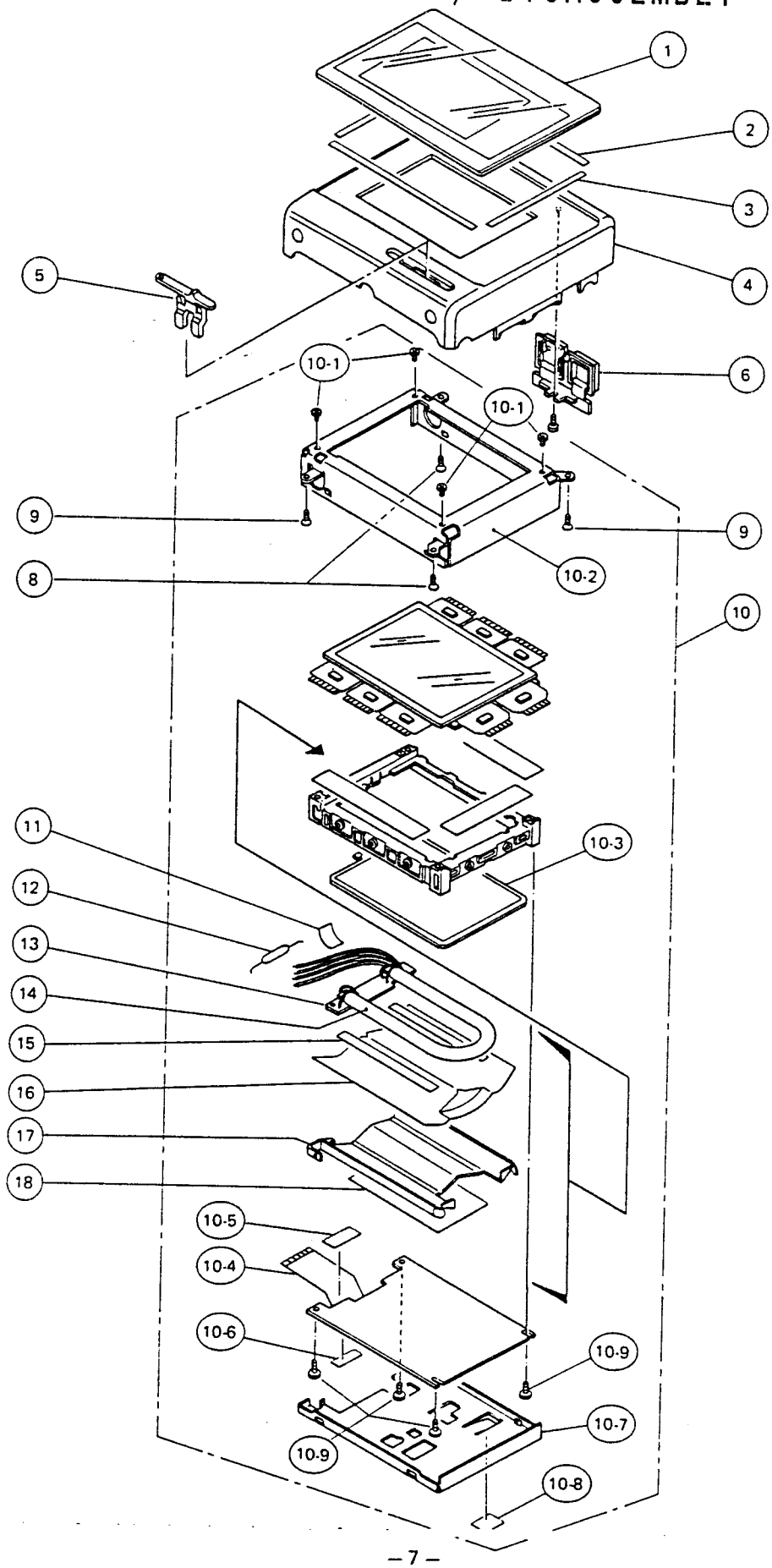
A/D PCB

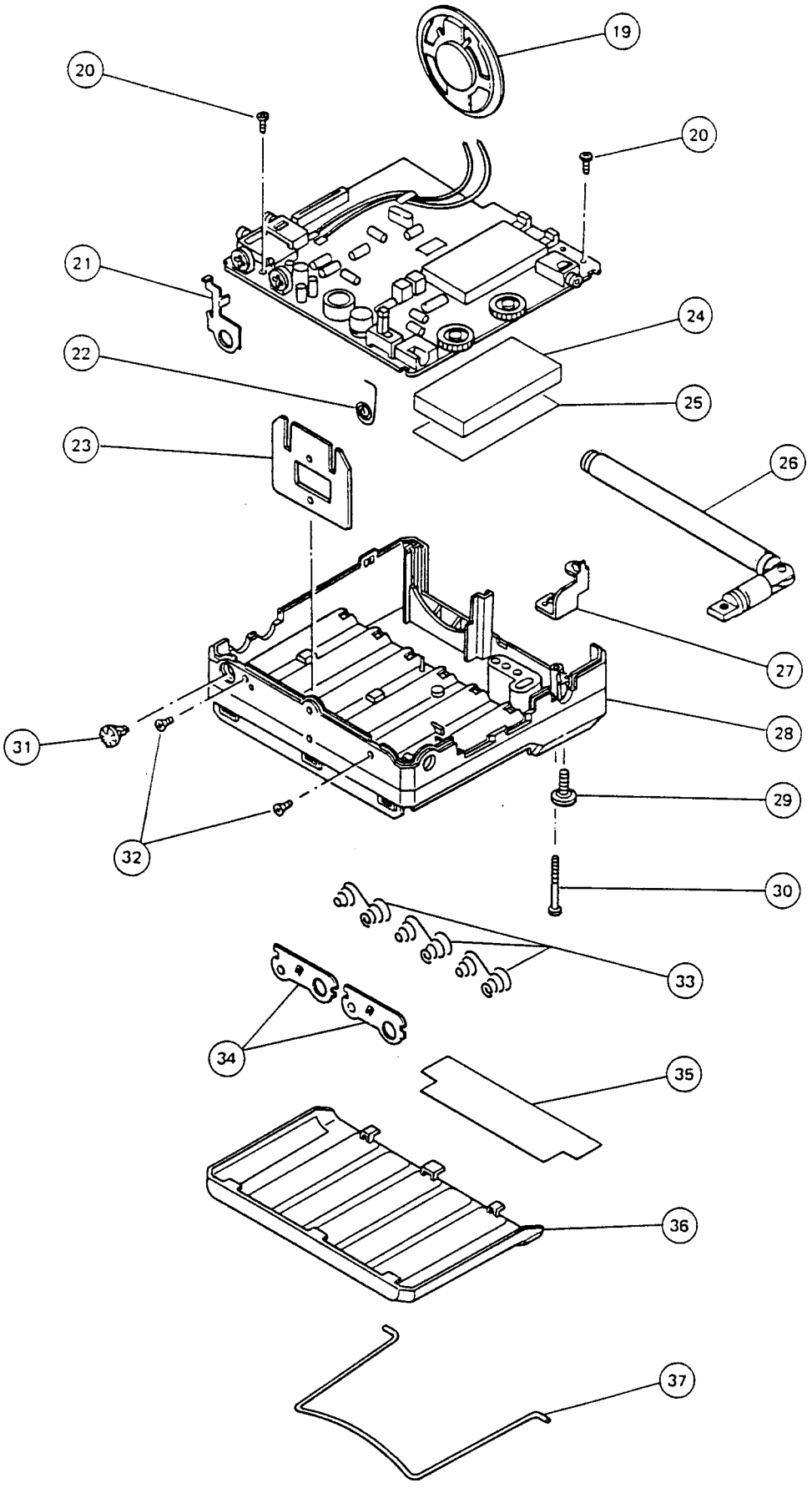


1 22 Linear PCB



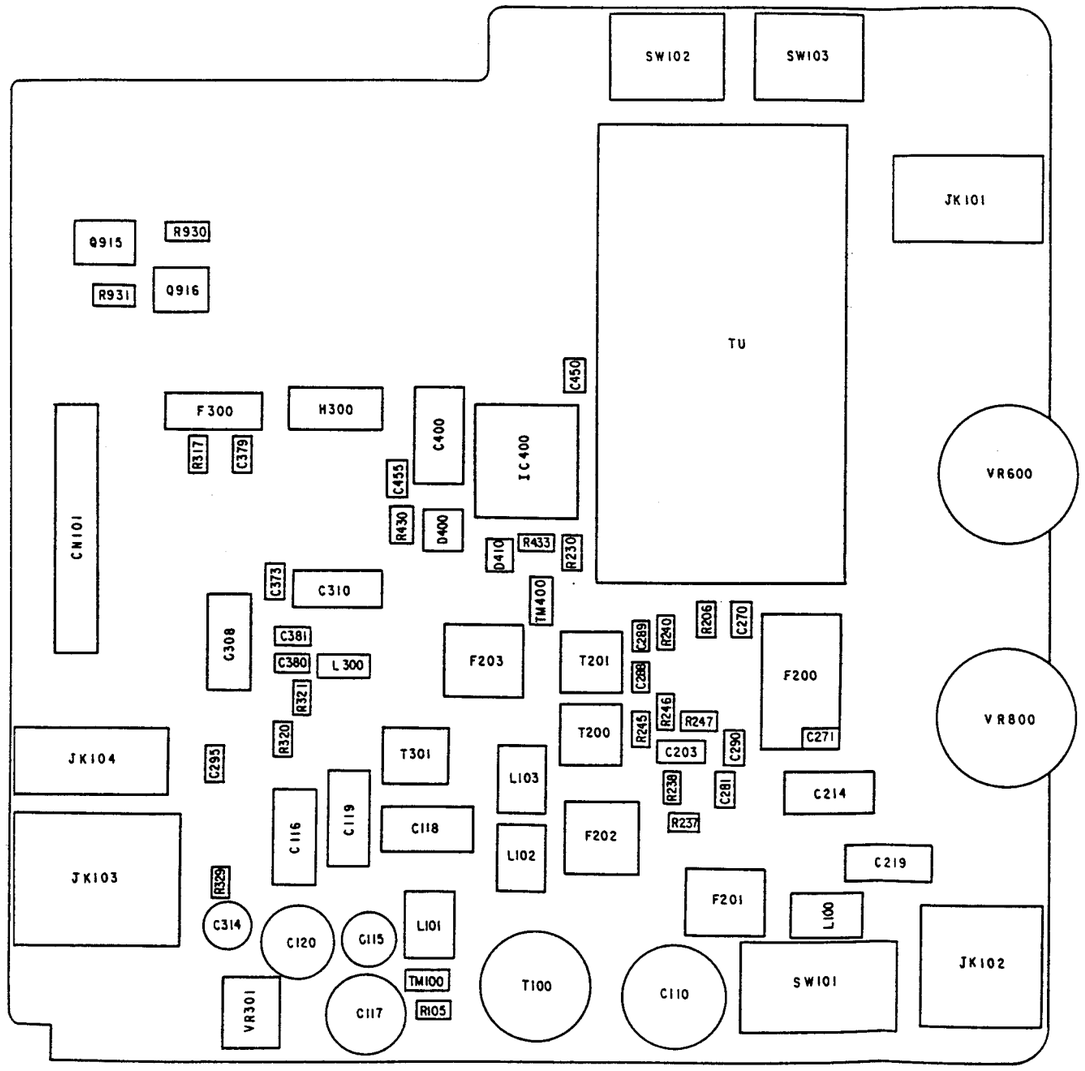
EXPLODED VIEW / DISASSEMBLY



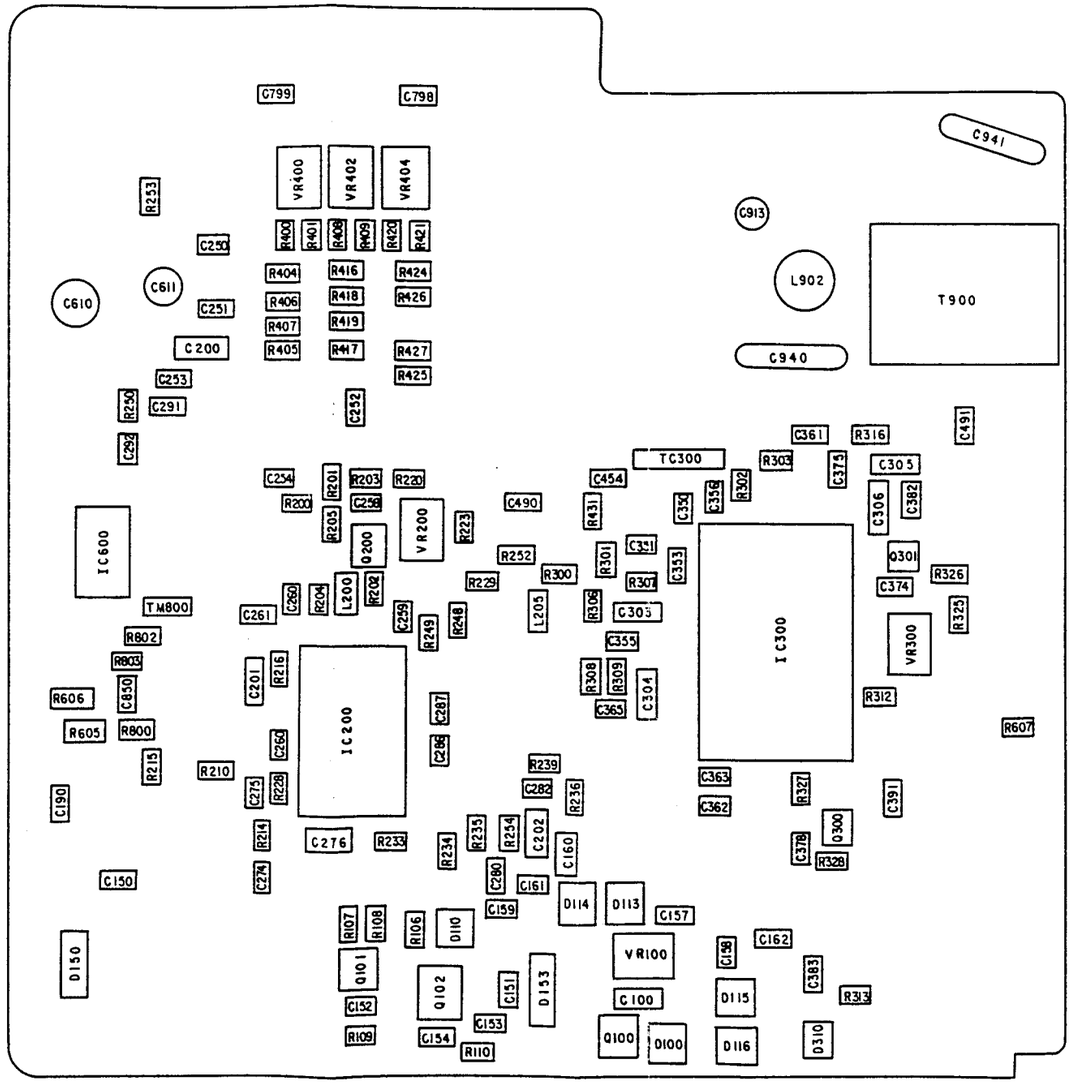

19
20
20
21
24
22
25
23
26
27
31
28
29
32
30
33
34
35
36
37

COMPONENT LOCATIONS

Linear PGB (Top view)



Linear PGB (Bottom view)



Linear PCB No. 1 KX337CA

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	Capacitor					
C100	2895 0595	Chip tantalum	ECST0JY225R	10	27	C
C110	2804 8491	Electrolytic	10RC470	10	38	C
C115	2801 8344	Electrolytic	63RC2-3R3MS	20	12	C
C116	2804 9064	Electrolytic	16RC2-10-G6	10	9	C
C117	2801 7042	Electrolytic	6.3RCS-220	10	38	C
C118	2801 7322	Electrolytic	63RC2-4R7MS-G5	20	15	C
C119	2801 8358	Electrolytic	16RC2-10-G5	20	13	C
C120	2845 1183	Electrolytic (os)	10SC10M	10	40	C
C150	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C151	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C152	2897 0189	Chip	GR40W5R682K50PT	20	8	C
C153	2897 0343	Chip	GR40SL681J50PT	20	12	C
C154	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C157	2897 0686	Chip	GR42-6W5R103K100PT	20	12	C
C158	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C159	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C160	2897 0686	Chip	GR42-6W5R103K100PT	20	12	C
C161	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C162	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C190	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C200	2895 0210	Chip	ECST1VY104R	10	27	C
C201	2895 0595	Chip	ECST0JY225R	10	27	C
C202	2895 0595	Chip	ECST0JY225R	10	27	C
C203	2895 0133	Chip	ECST1EY474R	10	27	C
C214	2801 7490	Electrolytic	6.3RC2-47MS-G6	10	15	C
C219	2845 1176	Electrolytic	6SC6R8M	10	29	C
C250	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C251	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C252	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C253	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C254	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C258	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C259	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C260	2897 0245	Chip	GR40CH180J50PT	20	6	C
C261	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C266	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C270	2892 0229	Chip	GR40W5R103K25PT	10	12	C
C271	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C274	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C275	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C276	2892 0844	Chip	GR42-6Y5V474Z16PT	20	27	C
C280	2892 0091	Chip	GR40W5R223K25PT	10	15	C
C281	2892 0407	Chip	GR40CH270J50PT	10	10	C
C282	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C286	2892 0890	Chip	GR40PH560J50PT	20	13	C
C287	2897 0133	Chip	GR40CH0R5C50PT	20	7	C
C288	2892 0890	Chip	GR40PH560J50PT	20	13	C
C289	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C290	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C291	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C292	2897 0112	Chip	GR40W5R562K50PT	20	12	C
C295	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C308	2801 8400	Electrolytic	16RC2-10-G12	20	13	C
C310	2845 1176	Electrolytic (os)	6SC6R8M	10	29	C
C350	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C351	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C353	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C355	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C356	2892 0318	Chip	GR40CH820J50PT	10	11	C
C361	2892 0133	Chip	GR40CH150J50PT	10	10	C
C362	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C363	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C

Linear PCB No. 2

KX337CA

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
C373	2892 0113	Chip	GR40CH150J50PT	10	10	C
C374	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C375	2897 0126	Chip	GR40CH221J50PT	20	9	C
C378	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C379	2897 0126	Chip	GR40CH221J50PT	20	9	C
C380	2892 0407	Chip	GR40CH270J50PT	10	10	C
C381	2892 0407	Chip	GR40CH270J50PT	10	10	C
C382	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C383	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C391	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C450	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C454	2892 0229	Chip	GR40W5R103K25PT	10	12	C
C455	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C490	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C491	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
C798	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C799	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C850	2892 0046	Chip	GR40Y5V104Z25PT	10	14	C
C913	2845 1183	Electrolytic	10SC10M	10	40	C
C940	2820 3268	TF	ECQ-V1H154JZ	10	29	C
C941 *O	2813 1099	Ceramic	CC45SL3FD101J	20	21	C
	Diodes					
D100	2315 0166	Chip zener	MA3047-L(TX)	10	30	C
D110	2305 1010	Chip	MC2838-T1	10	21	C
D113	2390 0469	Chip	MA157A-(TX)	20	19	C
D114	2305 1010	Chip	MC2838-T1	10	21	C
D115	2305 1010	Chip	MC2838-T1	10	21	C
D116	2390 0651	Chip	MA158-(TX)	20	20	C
D150	2315 0204	Chip	MA701-(TX)	10	55	C
D153	2315 0204	Chip	MA701-(TX)	10	55	C
D310	2390 0735	Chip	MA143-(TX)	20	24	C
D400	2360 0854	Chip	MA3100-M(TX)	20	17	C
D410	2390 0735	Chip	MA143-(TX)	20	24	C
	Filters and Traps					
F200	3025 0189	SAW Filter	SAF38.9MZ60Z	1	150	C
F201	3025 0154	SIF Filter	EFC-S5R5MS6	10	38	C
F202	3850 1496	Ceramic discriminator	CDA5.5MC30	5	68	C
F203	3850 1372	SIF Trap	TPS5.5MB	10	30	C
F300	3850 1380	Chroma trap	TPS4.43MJ	5	55	C
	ICs					
IC200	2120 6539	Linear	M51348FP	1	450	B
IC300	2114 0350	Linear	M51403FP	1	470	B
IC400	2114 0182	Linear	MSC1169MS-K	1	140	B
IC600	2120 8876	Linear	NJM386-M	1	140	B
	Inductors					
L100	3013 0161	Chip	NL453232-100K-2-TP	10	32	C
L101	3013 0161	Chip	NL453232-100K-2-TP	10	32	C
L102	3013 0021	Chip	NL453232-101K-2-TP	10	33	C
L103	3013 0021	Chip	NL453232-101K-2-TP	10	33	C
L200	3018 0550	Chip	MLF3216DR82K-TP	10	50	C
L205	3013 0581	Chip	MLF3216C150K-TP	10	30	C
L300	3013 0637	Chip	MLF3216C220K-TP	10	29	C
L902	3841 1366	Choke coil	TSL0707-101KR66	5	74	C
	Transistors					
Q100	2230 7011	Chip	2SD601A-R(TX)	10	22	C
Q101	2230 7011	Chip	2SD601A-R(TX)	10	22	C
Q102	2252 0056	Chip	2SC2873-YTE12L	10	44	C
Q200	2221 2478	Chip	2SC2757-T1BT33,34	20	29	C
Q300	2253 0133	Chip	2SD1819A-R(TX)	20	12	C
Q301	2251 0189	Chip	2SB1218A-R(TX)	20	10	C
Q915	2253 0308	Chip	2SD1119-R(TX)	10	36	C
Q916	2253 0308	Chip	2SD1119-R(TX)	10	36	C

Linear PCB No. 3 KX337CA

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	Resistors					
R105	2791 1072	Chip	ERJ-6GEYJ182V	10	5	C
R106	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R107	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R108	2892 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R109	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R110	2791 0592	Chip	ERJ-6GEYJ101V	10	5	C
R200	2791 0720	Chip	ERJ-6GEYJ220V	20	3	C
R201	2791 0572	Chip	ERJ-6GEYJ101V	10	5	C
R202	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R203	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R204	2791 0831	Chip	ERJ-6GEYJ681V	20	4	C
R205	2791 0688	Chip	ERJ-6GEYJ220V	20	3	C
R206	2797 0777	Chip	ERJ-6GEYJ121V	20	2	C
R210	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
R214	2791 0313	Chip	ERJ-6GEYJ103V	10	5	C
R215	2791 0305	Chip	ERJ-6GEYJ472V	20	3	C
R216	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R220	2791 0769	Chip	ERJ-6GEYJ563V	20	3	C
R223	2892 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R228	2791 0607	Chip	ERJ-6GEYJ470V	20	4	C
R229	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R230	2797 1015	Chip	ERJ-6GEYK225V	20	3	C
R233	2791 1420	Chip	ERJ-6GEYJ331V	20	6	C
R234	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R235	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R236	2892 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R237	2791 2176	Chip	ERJ-6GEYJ471V	20	3	C
R238	2791 1625	Chip	ERJ-6GEYJ391V	20	4	C
R239	2791 1919	Chip	ERJ-6GEYJ274V	20	3	C
R240	2791 1420	Chip	ERJ-6GEYJ331V	20	6	C
R245	2791 0580	Chip	ERJ-6GEYJ392V	10	4	C
R246	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R247	2791 1650	Chip	ERJ-6GEYJ122V	20	3	C
R248	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
R249	2791 0607	Chip	ERJ-6GEYJ333V	20	4	C
R250	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
R251		Not used				
R252	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R254	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
R300	2791 1579	Chip	ERJ-6GEYJ474V	10	4	C
R301	2791 1579	Chip	ERJ-6GEYJ474V	10	4	C
R302	2791 1625	Chip	ERJ-6GEYJ391V	20	4	C
R303	2791 0712	Chip	ERJ-6GEYJ152V	20	4	C
R306	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R307	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R308	2791 2052	Chip	ERJ-6GEYJ224V	20	3	C
R309	2791 2141	Chip	ERJ-6GEYJ273V	20	4	C
R312	2791 1595	Chip	ERJ-6GEYJ153V	20	4	C
R313	2791 1396	Chip	ERJ-6GEYJ473V	10	6	C
R316	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R317	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R320	2791 1625	Chip	ERJ-6GEYJ391V	20	4	C
R321	2791 0572	Chip	ERJ-6GEYJ101V	10	5	C
R325	2791 0725	Chip	ERJ-6GEYJ223V	20	6	C
R326	2791 1633	Chip	ERJ-6GEYJ123V	20	3	C
R327	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R328	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R329	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R400	2791 1684	Chip	ERJ-6GEYJ183V	20	3	C
R401	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R404	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R405	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
R406	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R407	2791 0599	Chip	ERJ-6GEYJ822V	10	5	C
R408	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R409	2797 0028	Chip	ERJ-6GEYJ683V	20	3	C
R416	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R417	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R418	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R419	2791 0599	Chip	ERJ-6GEYJ822V	10	5	C
R420	2797 1008	Chip	ERJ-6GEYJ563V	20	6	C
R421	2791 2044	Chip	ERJ-6GEYJ124V	20	3	C
R424	2791 2052	Chip	ERJ-6GEYJ224V	20	3	C
R425	2791 2109	Chip	ERJ-6GEYJ393V	20	3	C
R426	2791 2044	Chip	ERJ-6GEYJ124V	20	3	C
R427	2791 1595	Chip	ERJ-6GEYJ153V	20	4	C
R430	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
R431	2791 1579	Chip	ERJ-6GEYJ474V	10	4	C
R433	2791 0607	Chip	ERJ-6GEYJ333V	20	4	C
R605	2791 0823	Chip	ERJ-8GEYJ220V	10	5	C
R606	2791 0823	Chip	ERJ-8GEYJ220V	10	5	C
R607	2791 0696	Chip	ERJ-6GEYJ470V	20	4	C
R800	2791 0313	Chip	ERJ-6GEYJ103V	10	5	C
R802	2791 1684	Chip	ERJ-6GEYJ183V	20	3	C
R803	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R930	2791 1170	Chip	ERJ-8GEYJ182V	20	3	C
R931	2791 1170	Chip	ERJ-8GEYJ182V	20	3	C
	Variable Resistors					
VR100	2771 0310	Semi-fixed resistor	EVM-07SW00B23	10	40	C
VR200	2771 0212	Semi-fixed resistor	EVM-07SW00B54	10	40	C
VR300	2771 0191	Semi-fixed resistor	EVM-17SW00B24	10	49	C
VR301	2775 0077	Semi-fixed resistor	H0614D-47KB	20	20	C
VR400	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	40	C
VR402	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	40	C
VR404	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	40	C
VR600	2765 0462	Volume	RK09H11T-50KB	5	80	C
VR800	2765 0658	Volume	RK09H11T-20KA	5	64	C
	Other Electronic Parts					
CN101	3501 3227	Connector	52030-2220	5	88	C
H300	2590 0245	Crystal oscillator	AT-51C	1	120	C
JK101	3510 8114	Jack (ANT)	HSJ0836-01-010	10	30	C
JK102	3501 1407	Jack (Power) 3	HEC0779-01-030	5	56	C
JK103	3240 1791	Jack (Audio/Video) 5	HSJ0863-01-410	1	110	C
JK104	3510 8114	Jack (Earphone) 4	HSJ0836-01-010	10	30	C
SW101	3412 0476	Slide switch 20	HSJ1698-01-060	5	56	C
SW102	3412 0469	Light tougch switch 19	SKHHLN	20	24	C
SW103	3412 0469	Light tiugch switch	SKHHLN	20	24	C
T100	3065 0161	DC-DC Converter	LC128-02	1	100	C
T200	3841 1241	Coil	5KVC-03	5	59	C
T201	3841 1241	Coil	5KVC-03	5	59	C
T301	3841 0392	Coil	5PBC-01	5	59	C
T900	3013 0301	Inverter trans	TDA-10	1	270	C
TC300	2898 0028	Trimmer capacitor	ECR-RN035L72D	10	42	C
TM100	2775 0182	Chip thermistor	N32163DH102K	10	30	C
TM400	2775 0203	Chip thermistor	N32164BH154K	10	30	C
TM800	2775 0168	Chip thermistor	N32163RH203K	10	32	C
TU	1012 8253	Tuner 17	TEPE2-04	1	850	C

A/D PCB No.1 KX337CA

Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
	Capacitor					
C700	2895 0189	Electrolytic	ECST0JY335R	10	29	C
C750	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C751	2892 0296	Chip	GR40CH390J50PT	10	10	C
C752	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C753	2892 0296	Chip	GR40CH390J50PT	10	10	C
C754	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C755	2892 0296	Chip	GR40CH390J50PT	10	10	C
C756	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C757	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C758	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C759	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C765	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C766	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C767	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C768	2892 0253	Chip	GR42-6Y5V224Z25PT	10	24	C
C769	2892 0253	Chip	GR42-6Y5V224Z25PT	10	24	C
C770	2892 0253	Chip	GR42-6Y5V224Z25PT	10	24	C
C771	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C773	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C775	2892 0016	Chip	GR40W5R102K50PT	10	11	C
C776	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C777	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C778	2897 0469	Chip	GR40UJ470J50PT	20	7	C
C780	2892 0296	Chip	GR40CH390J50PT	10	10	C
C781	2892 0296	Chip	GR40CH390J50PT	10	10	C
C782	2892 0296	Chip	GR40CH390J50PT	10	10	C
C783	2892 0296	Chip	GR40CH390J50PT	10	10	C
C784	2892 0296	Chip	GR40CH390J50PT	10	10	C
C785	2892 0296	Chip	GR40CH390J50PT	10	10	C
C786	2892 0326	Chip	GR40CH101J50PT	10	11	C
C787	2892 0326	Chip	GR40CH101J50PT	10	11	C
C788	2892 0326	Chip	GR40CH101J50PT	10	11	C
C790	2892 0130	Chip	GR40Y5V102Z50PT	10	9	C
C793	2892 0130	Chip	GR40Y5V102Z50PT	10	9	C
C794	2892 0113	Chip	GR40CH150J50PT	10	10	C
C795	2892 0113	Chip	GR40CH150J50PT	10	10	C
C800	2895 0595	Chip tantalum	ECST0JY225R	10	27	C
C801	2895 0126	Chip	ECST1CY105R	10	29	C
C810	2801 8309	Electrolytic	50RC2-4R7MS-G11	20	14	C
C811	2801 8309	Electrolytic	50RC2-4R7MS-G11	20	14	C
C855	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C856	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C857	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C858	2892 0156	Chip	GR40Y5V104Z25PT	10	16	C
C859	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C860	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C861	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C867	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C868	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C870 *O	2892 0350	Chip	GR42-6Y5V103Z50PT	20	8	C
C871	2892 0253	Chip	GR42-6Y5V224Z50PT	10	24	C
C875	2892 0844	Chip	GR42-6Y5V474Z16PT	20	27	C
C880	2892 0156	Chip	GR40Y5V104Z25PT	10	16	C
C881	2897 0168	Chip	GR40CH391J50PT	10	9	C
C890	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C891	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
C892	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	Diodes					
D700	2360 0854	Chip zener	MA3100-M(TX)	20	17	C
D710	2305 1010	Chip	MC2838-T1	10	21	C
D712	2305 1010	Chip	MC2838-T1	10	21	C
D750	2390 0462	Vari. Cap.	MA366-(TX)	10	33	C

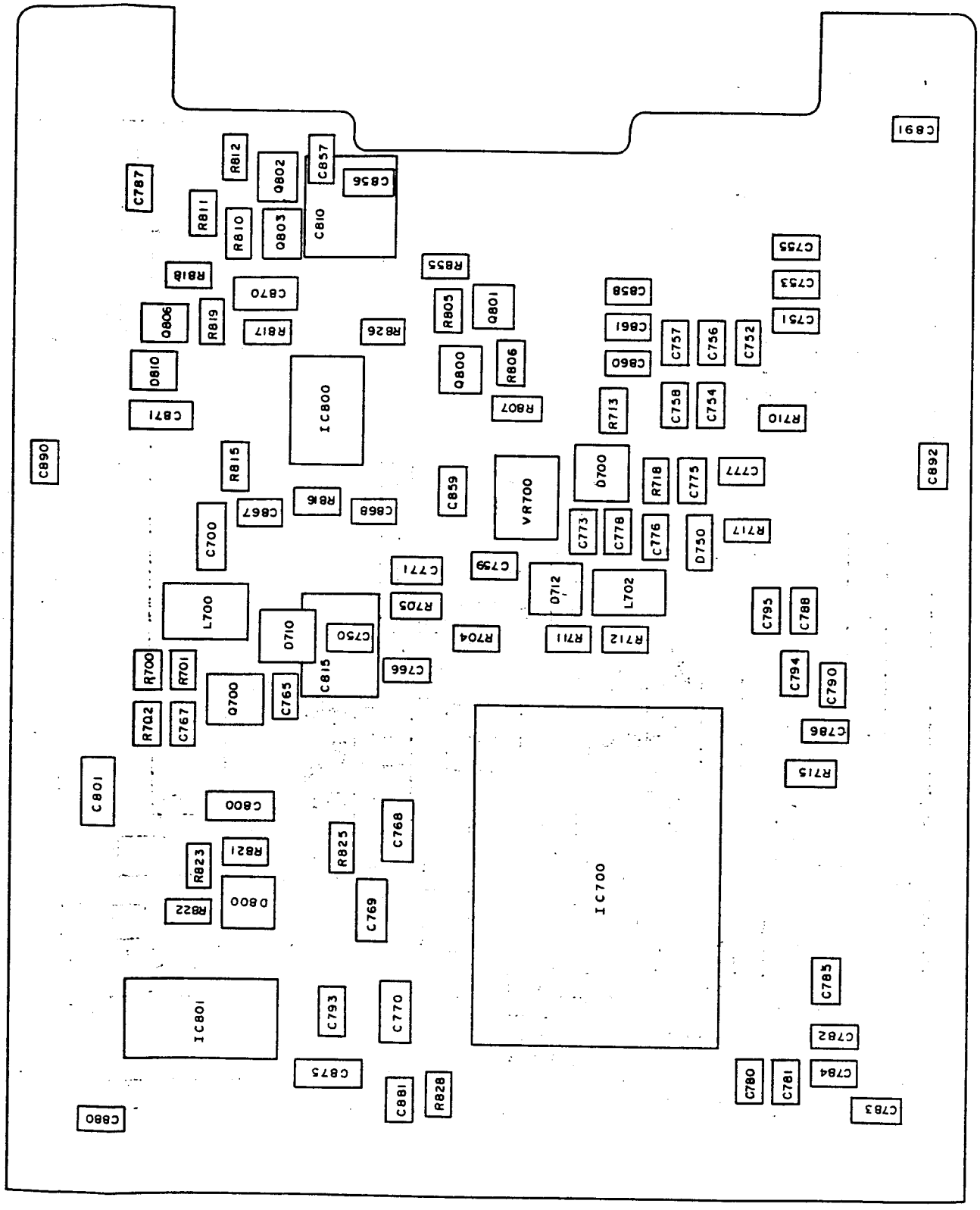
Item	Code No.	Parts Name	Spec. No.	*	FOB Japan	Rank
D800	2360 0854	Chip zener	MA3100-M(TX)	20	17	C
D810	2390 0728	Chip	MC2848-T1	20	9	C
	ICs and LSIs					
IC700	2010 5999	LSI	MSM6348GS-K	1	530	B
IC800	2114 1295	Linear IC	LA5313M	1	180	B
IC801	2010 4382	MOS IC	MSM6362MS-K	1	100	B
	Inductors					
L700	3013 0021	Chip	NL453232-101K-2-TP	10	33	C
L702	3013 0245	Chip	NL322522-100J-1-TP	10	25	C
	Transistors					
Q700	2230 7011	Chip	2SD601A-R(TX)	10	22	C
Q800	2251 0189	Chip	2SB1218A-R(TX)	20	12	C
Q801	2251 0189	Chip	2SB1218A-R(TX)	20	12	C
Q802	2253 0133	Chip	2SD1819A-R(TX)	20	12	C
Q803	2253 0133	Chip	2SD1819A-R(TX)	20	12	C
Q806	2251 0189	Chip	2SB1218A-R(TX)	20	12	C
	Resistors					
R700	2791 1633	Chip	ERJ-6GEYJ123V	20	3	C
R701	2797 0014	Chip	ERJ-6GEYJ821V	20	3	C
R702	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
R704	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R705	2797 0238	Chip	ERJ-6GEYJ560V	20	3	C
R710	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R711	2791 2052	Chip	ERJ-6GEYJ224V	20	3	C
R712	2791 0599	Chip	ERJ-6GEYJ822V	10	5	C
R713	2791 0615	Chip	ERJ-6GEYJ154V	10	5	C
R715	2792 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R717	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R718	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
R805	2791 0769	Chip	ERJ-6GEYJ563V	20	3	C
R806	2791 0615	Chip	ERJ-6GEYF154V	10	5	C
R807	2797 1197	Chip	ERJ-6GEYF183V	20	6	C
R810	2791 0769	Chip	ERJ-6GEYJ563V	20	3	C
R811	2797 1225	Chip	ERJ-6GEYF154V	10	5	C
R812	2797 1211	Chip	ERJ-6GEYF223V	20	6	C
R815	2791 2109	Chip	ERJ-6GEYJ393V	20	3	C
R816	2797 0042	Chip	ERJ-6GEYJ824V	20	6	C
R817	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
R818	2791 1650	Chip	ERJ-6GEYJ122V	20	3	C
R819	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
R821	2791 1901	Chip	ERJ-6GEYJ184V	20	3	C
R822	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
R823	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
R825	2892 0110	Chip jumper	ERJ-6GEY0R00V	20	3	C
R826	2791 0742	Chip	ERJ-6GEYJ332V	10	5	C
R828	2791 0305	Chip	ERJ-6GEYJ472V	20	3	C
	Variable Resistors					
VR700	2771 0328	Semi-fixed resistor	EVM-07SW00B15	10	40	C

Mechanical

KX337CA(TV6500)

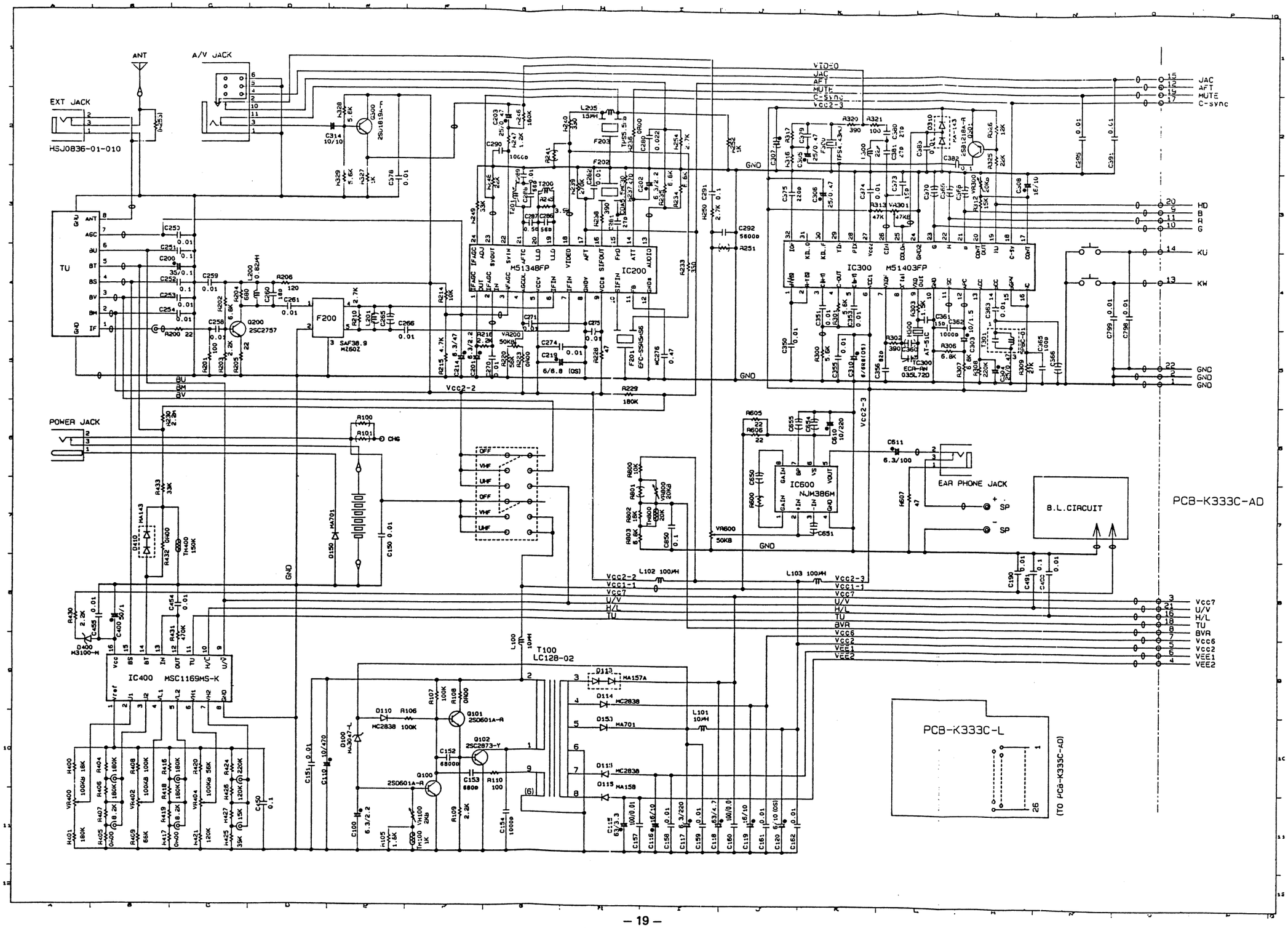
Item	Code No.	Parts Name	Spec. No.	*	FOB Japan Unit Price	Rank
1 *O	6605 3440	Display plate C-K337 23	K410175-4	1	140	C
2 *O	6602 2400	Adhesive tape B-K56	K4677-2	20	4	X
3	6600 4280	Adhesive tape B-K51	K451-15	10	5	X
4	6605 3480	Upper case C-K337 24	K110043-3	1	180	C
5 *O	6605 0540	SW knob A-K333 21	K310125-1	20	11	X
6 *O	6605 0600	T button A-K333 13	K310133-1	10	31	X
7 *O	5860 0420	Precision (+) tap tight	BT3 1.7 x 4NI	50	3	X
8 *O	5860 2380	Precision (+) tap tight	PS3 1.7 x 3.5BK	50	3	X
9	5860 2380	Precision (+) tap tight	PS3 1.7 x 3.5BK	50	3	X
10 *O	6605 2426	Display assy 22	K110064E*3	1	9070	B
10 - 1	6338 7840	TS screw G435	A44527-2	50	2	X
10-2*O	6605 0660	S case A-K337	K210109-1	10	47	C
10-3*O	6605 0680	Diffuser K337	K210118-1	10	35	C
10-4*O	6605 0230	Cable A-K334	K210097-1	1	110	C
10-5*O	6605 1460	Reinforcemnt B-K333	K410228-1	20	6	X
10-6*O	6605 1710	Insulation plate B-K333	K410293-1	20	5	X
10-7*O	6605 0670	S case B-K337	K210107-1	10	37	C
10-8*O	6605 0690	Shield plate A-K333	K410240-1	20	20	X
10-9*O	6605 0650	Precision (+) tap tight	K41310-6	50	3	X
11 *O	6605 1720	Felt A-K333	K410292-1	20	4	X
12	3632 0028	Temperature fuse 8	SM098B1	10	35	B
13 *O	4309 2040	PCB K337-AD	K310178-1	1	210	C
14 *O	3851 0861	Cathode tube FL Lamp 6	81PU2267AD1P7	1	650	B
15	6600 4290	Adhesive tape C-K51	K451-16	10	5	X
16 *O	6605 0710	Reflection sheet A-K337	K410222-1	20	14	X
17 *O	6605 0700	Reflection plate K337	310129-1	5	54	X
18 *O	6605 0720	Insulation plate A-K337	K410229-3	20	8	X
19 *O	3831 0161	Speaker 11	36TH03B	1	210	B
20 *O	5860 0420	Precision (+) tap tight	BT3 1.7 x 4NI	50	3	X
21 *O	6605 1410	B spring A-K333 17	K310124-2	20	12	C
22 *O	6605 0260	B spring A-K334 14	K410152-1	20	10	C
23 *O	6605 0020	Mount plate K334	K410186-1	20	25	X
24 *O	6605 0240	S case C-K334	K310122-1	10	27	C
25 *O	6605 0530	Insulation plate A-K338	K410197-1	20	5	X
26	3851 0854	Rod antenna 2	YC-KX-337-A1	1	450	C
27 *O	6605 0030	ANT terminal K334	K410185-1	20	16	X
28	6605 1190	Lower case B-K333 25	K110044-2	1	100	C
29 *O	6605 0010	Flat screw A-K334	K410096-1	20	3	X
30 *O	6604 9980	Screw A-K334	K410188-1	50	3	X
31	6603 8923	C knob A-K310	K3741C-1	10	12	X
32 *O	5860 2380	Precision (+) tap tight	PS3 1.7 x 3.5BK	50	3	X
33	6600 4800	Battery spring B-K51 15	K4137-1	10	28	C
34 *O	6605 0050	B spring B-K338 16	K310136-1	20	8	C
35 *O	6605 3460	Rating plate C-K337	K410200-3	20	15	X
36	6605 0470	B cover A-K333 12	K210101-1	10	28	C
37 *O	6604 9960	Stand A-K334 26	K410180-1	10	34	X

A/D PCB

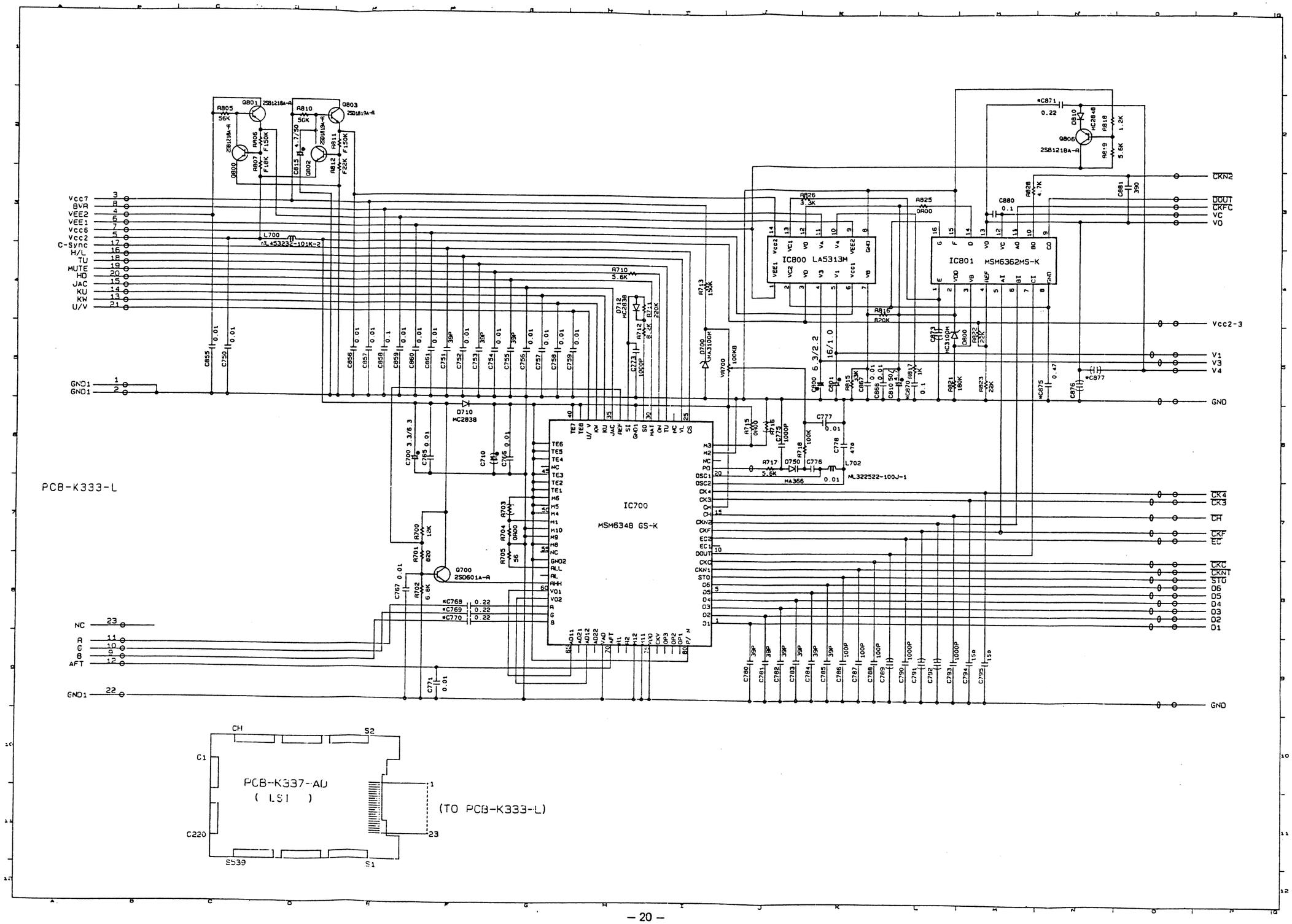

C891
C892
C787
R812
Q802
C857
C856
R811
R810
Q803
C810
R818
C870
Q806
R819
R817
R826
D810
C871
C890
R815
C867
R816
C868
C700
L700
D710
C750
C815
R700
R701
Q700
C765
R702
C767
C801
C800
R821
R823
D800
R822
C768
R825
C769
IC801
C793
C770
C875
C880
C881
R828
IC800
R855
R805
Q801
Q800
R806
R807
C858
C861
C860
C757
C756
C752
C755
C753
C751
R713
C758
C754
R710
C859
VR700
D700
R718
C775
C777
C773
C778
C776
D750
R717
C771
C739
R705
R704
D712
L702
R711
R712
C795
C788
C794
C790
C786
R715
IC700
C785
C782
C784
C780
C781
C783

SCHEMATIC DIAGRAM

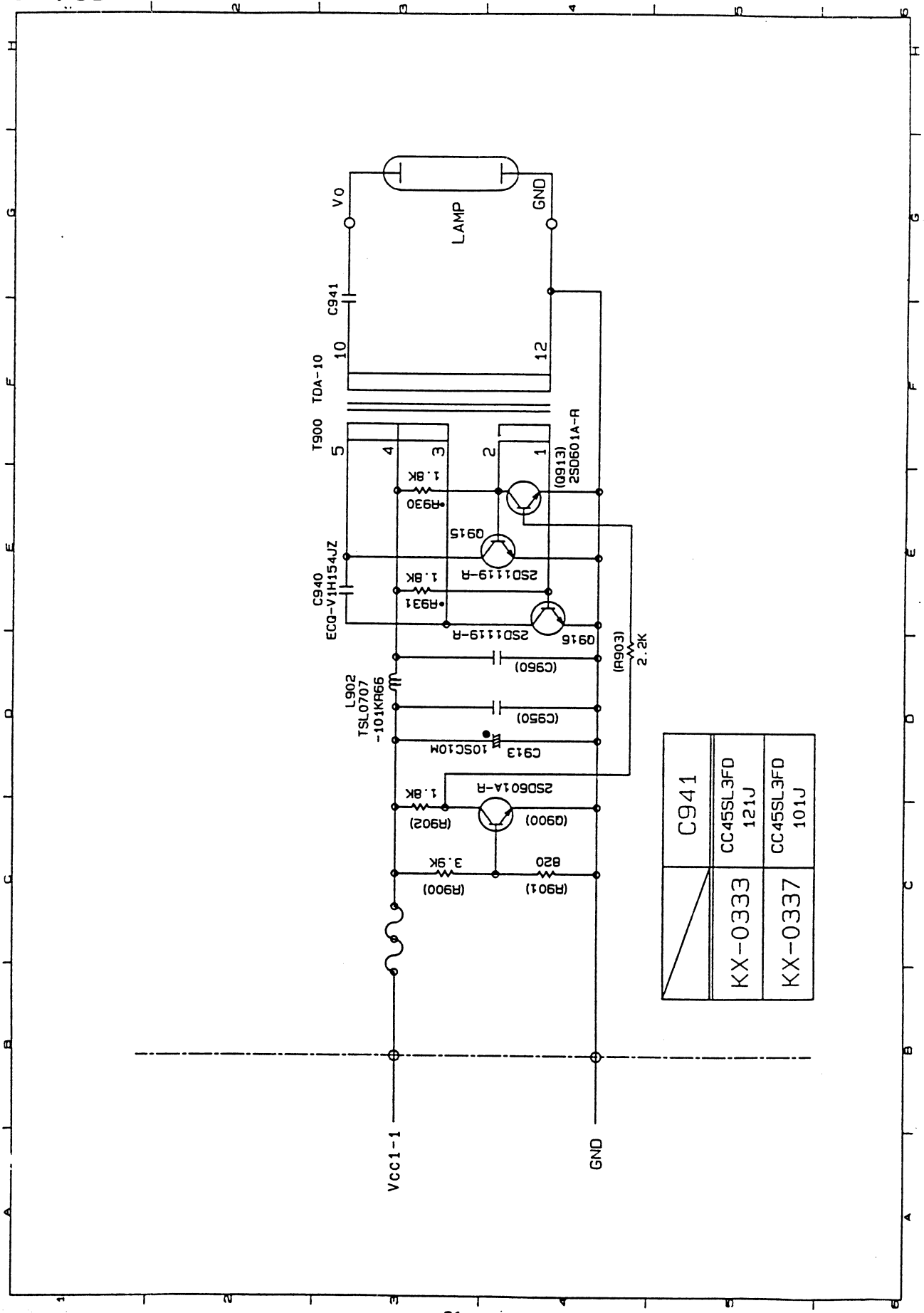
Linear PCB



A/D PCB


PCB-K333-L
IC700
MSM6348 GS-K
IC800 LA5313M
IC801 MSM6362MS-K
Q700 2SD601A-R
Q801 2SB1218A-R
Q803 2SD1819A-R
Q802 2SB1218A-R
Q800 2SB1218A-R
Q806 2SB1218A-R
D710 MC2838
D712 MC2838
D700 HA3100F
D810 MC2848
D750 MA366
L700 ML453232-101K-2
L702 ML322522-100J-1
Vcc7
BVR
VEE2
VEE1
Vcc6
Vcc2
C-Sync
H/L
TU
MUTE
HD
JAC
KU
KW
U/V
GND1
GND1
NC
R
G
B
AFT
GND1
Vcc2-3
V1
V3
V4
GND
CKN2
DOUT
CKFC
VC
VO
CK4
CH
CKF
EC
CKO
CKN1
D6
D5
D4
D3
D2
D1
GND
PCB-K337-AD
(LSI)
(TO PCB-K333-L)
CH
S2
C1
C220
S539
S1

BL PCB



	C941
KX-0333	CC45SL3FD 121J
KX-0337	CC45SL3FD 101J